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Risoe National Laboratory

Nielsen, Klaus K

Jensen, Christian S

Gao, Caixa

Salchert, Klaus

<120> Method of Repressing Flowering in a Plant

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<140> PCT/EP03/02629

<141> 2003-03-10

<150> US 60/363,125

<151> 2002-03-11

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Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Leu Arg Ser Leu 50 55 60

Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro 65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Ser Asn Ile Pro Gly Thr 85 90 95

Thr Asp Ala Ser Phe Gly Gly Glu Val Met Ser Tyr Glu Ser Pro Lys 100 105 110

Pro Asn Ile Gly Ile His Arg Phe Ile Phe Val Leu Phe Lys Gln Lys 115 120 125

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Ser Ser Val Ser Ser Lys Pro Arg Val Glu Ile His Gly Gly Asp Leu 50 55 60

Arg Ser Phe Phe Thr Leu Val Met Ile Asp Pro Asp Val Pro Gly Pro 65 70 75 80

Ser Asp Pro Phe Leu Lys Glu His Leu His Trp Ile Val Thr Asn Ile 85 90 95

Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu 100 105 110

Leu Pro Arg Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe 115 120 125

Arg Gln Lys Gln Arg Arg Val Ile Phe Pro Asn Ile Pro Ser Arg Asp 130 135 140

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Val Ser Tyr Asn Lys Lys Gln Val Ser Asn Gly His Glu Leu Phe Pro 35 40 45

Leu Ala Val Ser Ser Lys Pro Arg Val Glu Ile His Asp Gly Asp Leu 50 55 60

Arg Ser Phe Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Asn Pro 65 70 75 80

Ser Asp Pro Phe Leu Lys Glu Arg Leu His Trp Leu Val Met Asn Ile 85 90 95

Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu 100 105 110

Leu Pro Lys Pro Asn Ile Gly Ile His Arg Tyr Val Phe Val Leu Phe 115 120 125

Arg Gln Lys Gln Arg Arg Val Lys Phe Pro Ser Asn Ile Ile Ser Arg 130 135 140

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Leu Ala Val Ser Ser Lys Pro Arg Val Glu Ile His Asp Gly Asp Leu 50 60

Arg Ser Phe Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Asn Pro 65 70 75 80

Ser Asp Pro Phe Leu Lys Glu Arg Leu His Trp Leu Val Met Asn Ile 85 90 95

Pro Gly Thr Thr Asp Ala Thr Phe Gly Lys Glu Val Val Ser Tyr Glu 100 105 110

Leu Pro Lys Pro Asn Ile Gly Ile His Arg Tyr Val Phe Val Leu Phe 115 120 125

Arg Gln Lys Gln Arg Arg Val Lys Phe Pro Ser Asn Ile Ile Ser Arg 130 135 140

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Gly Asp Val Val Asp His Phe Thr Ser Thr Val Lys Met Ser Val Ile $20 \hspace{1cm} 25 \hspace{1cm} 30$

Tyr Asn Ser Asn Ser Ile Lys His Val Tyr Asn Gly His Glu Leu $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$

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Asp Met Arg Ser Phe Phe Thr Leu Ile Met Thr Asp Pro Asp Val Pro 65 70 75 80

Gly Pro Ser Asp Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr 85 90 95

Asp Ile Pro Gly Thr Thr Asp Ser Ser Phe Gly Lys Glu Val Val Ser 100 105 110

Tyr Glu Met Pro Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu 115 120 125

Leu Phe Lys Gln Lys Lys Arg Gly Gln Ala Met Leu Ser Pro Pro Val 130 135 140

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Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser 50 55 60

Phe Phe Thr Met Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly
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Thr Thr Asp Cys Ser Phe Gly Lys Glu Ile Val Gly Tyr Glu Met Pro 100 105 110

Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln
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Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser 50 55 60

Phe Phe Thr Leu Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly 85 90 95

Thr Thr Asp Cys Ser Phe Gly Arg Glu Ile Val Gly Tyr Glu Met Pro 100 105 110

Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln 115 120 125

Lys Lys Arg Gln Thr Leu Leu Ser Ala Pro Leu Ser Arg Asp Arg Phe 130 135 140

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Asn Asn Asn Lys His Val Tyr Asn Gly His Glu Phe Phe Pro Ser Ser 35 40 45

Val Thr Ser Lys Pro Arg Val Glu Val His Gly Gly Asp Leu Arg Ser 50 60

Phe Phe Thr Leu Ile Met Ile Asp Pro Asp Val Pro Gly Pro Ser Asp Page 11 70

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly 85 90 95

Thr Thr Asp Cys Ser Phe Gly Arg Glu Val Val Gly Tyr Glu Met Pro 100 105 110

Arg Pro Asn Ile Gly Ile His Arg Phe Val Phe Leu Leu Phe Lys Gln
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Lys Lys Arg Gln Thr Ile Ser Ser Ala Pro Val Ser Arg Asp Gln Phe 130 135 140

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Asn Gly Ser Lys Gln Val Phe Asn Gly His Glu Leu Met Pro Ala Val . 35 40 45

Ile Ala Ala Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Met Arg Ser 50 60

Ala Tyr Thr Leu Ile Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp 65 70 75 80

Pro Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly 85 90 95

Ser Thr Asp Ser Ser Phe Gly Arg Glu Ile Val Ser Tyr Glu Ser Pro 100 105 110

Page 12

Lys Pro Val Ile Gly Ile His Arg Tyr Val Leu Leu Leu Tyr Lys Gln 115 120 125

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Ser Asn Lys Leu Val Phe Asn Gly His Glu Leu Tyr Pro Ser Ala Val 35 40 45

Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Leu Arg Ser Phe 50 55 60

Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro 65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly Thr 85 90 95

Thr Asp Ala Ser Phe Gly Arg Glu Val Ile Ser Tyr Glu Ser Pro Lys 100 105 110

Pro Asn Ile Gly Ile His Arg Phe Ile Phe Val Leu Phe Lys Gln Lys 115 120 125

Arg Arg Gln Thr Val Ile Val Pro Ser Phe Arg Asp His Phe Asn Thr 130 135 140

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Ser Asn Lys Leu Val Phe Asn Gly His Glu Phe Tyr Pro Ser Ala Val\$35\$ 40 45

Val Ser Lys Pro Arg Val Glu Val Gln Gly Gly Asp Met Arg Ser Phe 50 55 60

Phe Thr Leu Val Met Thr Asp Pro Asp Val Pro Gly Pro Ser Asp Pro 65 70 75 80

Tyr Leu Arg Glu His Leu His Trp Ile Val Thr Asp Ile Pro Gly Thr 85 90 95

Thr Asp Ala Ser Phe Gly Arg Glu Ile Ile Ser Tyr Glu Ser Pro Lys 100 105 110

Pro Ser Ile Gly Ile His Arg Phe Val Phe Val Leu Phe Lys Gln Lys 115 120 125

Arg Arg Gln Ala Val Val Pro Ser Ser Arg Asp His Phe Asn Thr 130 135 140

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Gln Asn Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Leu Arg Asn Phe 50 55 60

Tyr Thr Leu Val Met Val Asp Pro Asp Val Pro Ser Pro Ser Asn Pro 65 70 75 80

His Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr 85 90 95

Thr Gly Thr Thr Phe Gly Asn Glu Ile Val Cys Tyr Glu Asn Pro Ser 100 105 110

Pro Thr Ala Gly Ile His Arg Val Val Phe Ile Leu Phe Arg Gln Leu 115 120 125

Gly Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr 130 135 140

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